

Operating Instructions



P4 Pellet 8 - 60



*Read and follow the operating instructions and safety information.
Subject to technical change.*

July 2009

Dear customer,

Congratulations on choosing a quality product from FRÖLING.

The FRÖLING P4 Pellet features a state-of-the-art design that conforms to all currently applicable standards and testing guidelines.

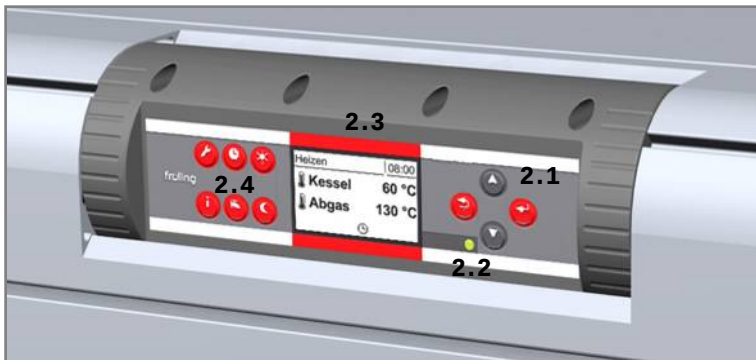
Please read and observe the operating instructions and always keep them close to the boiler for reference. Observing the requirements and safety information in the instruction manual makes a significant contribution to safe, appropriate, environmentally friendly and economical operation of the system.

The continuous development of our products means that there may be minor differences between the illustrations and other content of the document. If you discover any errors, please let us know.
Subject to technical change.

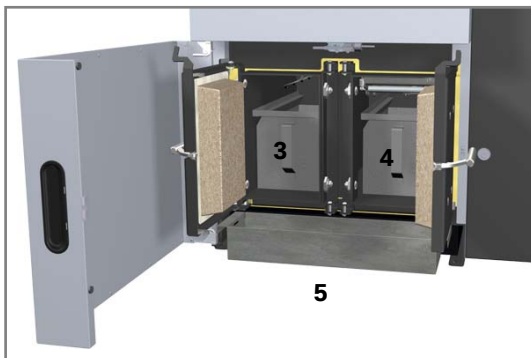
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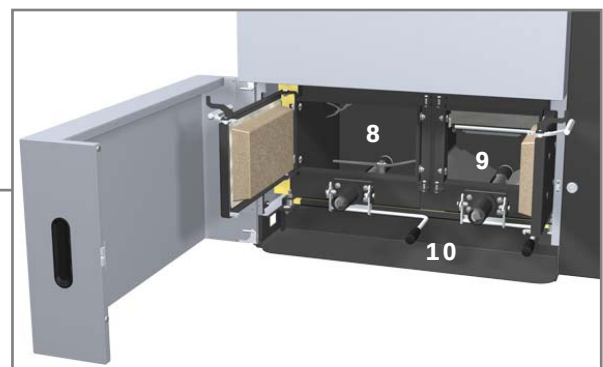
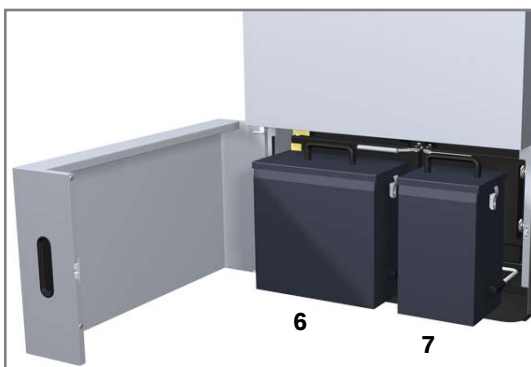
1 Product Overview



Ash drawer module (P4 Pellet 8/15/20/25):



Ash drawer module (P4 Pellet 32/38/48/60):



Below the insulating cover:



Pos	Component
1	P4 Pellet with integrated Pellets cyclone container
2	Lambdatronic P 3100 control system
2.1	Navigation keys to move around in the menus and to change the parameter values
2.2	Status LED (operating status): - slow green flashing light: boiler activated - fast green flashing light: boiler deactivated - flashing red light: malfunction
2.3	Large graphical display to show operating statuses and parameters
2.4	Function keys for calling up individual boiler functions or modes directly
3	Ash drawer - heat exchanger
4	Ash drawer - Combustion chamber
5	Ash drawer
6	Ash container - heat exchanger
7	Ash container - combustion chamber
8	Ash screw and stirrer of the automatic heat exchanger cleaning
9	P4 Pellet 32/38: Ash screw and guide plates of the combustion chamber cleaning P4 Pellet 48/60: Ash screw and stirrer of the combustion chamber cleaning
10	Lever of the ash box lock
11	Service interface of the control
12	Safety temperature limiter - STL

2 Safety

2.1 Safety Information



RISK

Non-permitted use!

Incorrect use of the boiler can cause severe injuries and damage!

The instructions and information provided in the instructions should be observed!

Details on procedure for operation, maintenance and cleaning, as well as troubleshooting for the boiler are included in the individual instructions. Any further work should be carried out by authorised heating engineers or by Fröling customer services.



WARNING

External influences!

Negative external influences, such as insufficient combustion air or non-standard fuel can cause serious faults in combustion (e.g. spontaneous combustion of carbonisation gases or flash fires) which can in turn cause serious accidents!

Instructions and information for versions and minimum values, as well as norms and guidelines for heating components in the instructions must be observed!



WARNING

Severe injuries and damage can be caused by an inadequate flue gas system!

Problems with the flue system, such as poor cleaning of the flue pipe or insufficient chimney draught can cause serious faults in combustion (such as spontaneous combustion of carbonisation gases or flash fires)!

You can only be guaranteed of optimum performance from the boiler if the flue gas system is running smoothly!

2.2 Permitted Uses

The boiler should only be operated when it is in full working order. It should be operated in accordance with the instructions, observing safety precautions, and you should ensure you are aware of the potential hazards. Ensure that any faults, which might impair safety, are rectified immediately.

The Fröling P4 Pellet is intended exclusively for heating up heating water. Use only the fuels specified under 2.2.1.

The manufacturer or supplier is not liable for any damages resulting from non-permitted uses.

2.2.1 Permitted fuel

Wood pellets made from natural wood with a diameter of 6mm



Applicable standards:

Austria:	ÖNORM M 7135 - HP 1 and/or DINplus certification program
Germany:	DIN 51731 - HP 5, DINplus certification program and/or ÖNORM M 7135 - HP 1

Applies generally:

Before refilling the store, check for pellet dust and clean if necessary.

2.2.2 Non-permitted fuels

The use of fuels not defined under 2.2.1, and particularly the burning of refuse, is not permitted.

CAUTION

Non-permitted fuels!

Burning non-permitted fuels increases the cleaning requirements and leads to a build-up of aggressive sedimentation and condensation, which can lead to damage to the boiler and also voids the warranty!
Using non-standard fuels can lead to severe faults with combustion.

2.2.3 Who may operate the boiler?

Only trained operators are permitted to operate the boiler.

CAUTION

No unauthorised access to the boiler room!

Danger: Personal injury and damage to property.

It is the responsibility of the operator to ensure that unauthorised persons, especially children, are kept away from the boiler.



2.3 Design Information

It is forbidden to carry out modifications to the boiler or to change or deactivate safety equipment.

In addition to the operating instructions and the applicable regulations for the country in which the boiler will be operated for installation and operation of the boiler system, all fire, police, and electrical regulations must be observed.

2.3.1 Approvals and reporting obligations

NOTE

Each heating system must be officially approved.

When installing or modifying a heating system, you must inform the inspectors from the supervisory authority and get authorisation from the building authorities.

Austria: Report to the construction authorities of the community or magistrate

Germany: Report new installations to an approved chimney sweeper / the building authorities.

2.3.2 Requirements for hot water supplies

The requirements pertaining to the water used to fill the boiler are based on the following standards and guidelines:

Applicable standards and directives:

Austria: ÖNORM H 5195-1
Germany: VDI 2035
Switzerland: SWKI 97-1



There are no other special requirements for domestic hot water apart from this.

- 👉 Note for filling with make-up water:
Bleed the filling hose before connecting to prevent air from getting into the system.

2.3.3 Ventilation of boiler room

The openings for the supply air and the exhaust air should be arranged as nearly opposite each other as possible to achieve a good thermal draught effect.

✎ The supply air must be drawn in directly from outside. The exhaust air must be discharged directly outside.

Unless otherwise provided by the relevant building regulations for the room where the boiler is to be installed, the following standards apply:

Applicable standards:

- TRVB H 118
- ÖNORM H 5170



Rule of thumb:

Provide a supply air cross-section of 2 cm² per kW of boiler rated output, as per ÖNORM H 5170, but a total cross-section of at least 200 cm²

2.3.4 Installing the heating system / Standards

The boiler shall only be operated within a pressurized (closed) hydraulic system. The following standards govern the installation of heating systems:

Applicable standards:

ÖNORM / DIN EN 12828 Heating Systems in Buildings

The following prior standards still apply:

Austria: - Closed systems as per ÖNORM B 8131

Germany: - Closed systems as per DIN 4751 Part 2



2.3.5 Combination with storage tank

NOTE

It is not necessary to use a storage tank for the system to run smoothly. However we recommend that you use it with a storage tank, as this allows you to achieve continuous reduction within the ideal performance range of the boiler.

Please contact your installer or a Fröling technician directly for the right measurements of the storage tank.

➤ [Page 30, 6.2 Address of manufacturer](#)

2.3.6 Chimney connection / chimney system



EN 303-5 specifies that the entire flue gas system must be designed to prevent, wherever possible, damage caused by seepage, insufficient feed pressure and condensation.

It should be noted here that flue gas temperatures of less than 160 K above room temperature can occur within the permitted operating range of the boiler.

The flue gas temperatures (when cleaned) and the additional flue gas values can be found in the technical specification sheets.

➤ See Boiler data for constructing the flue gas system:

Establish the connection to the chimney via the shortest path, ascending as much under 30 – 45° as possible. Insulate the connecting piece.

The entire flue gas system (chimney and connection) must be calculated as per ÖNORM / DIN EN 13384-1 or prior standards ÖNORM M 7515 / DIN 4705-1.

Local and other legal regulations also apply.

- ☞ The chimney must be approved by a smoke trap sweeper or chimney sweeper.
- ☞ As per TRVB H 118 (only in Austria) an explosion flap must be installed in the flue pipe or in the chimney.

Draught limiter

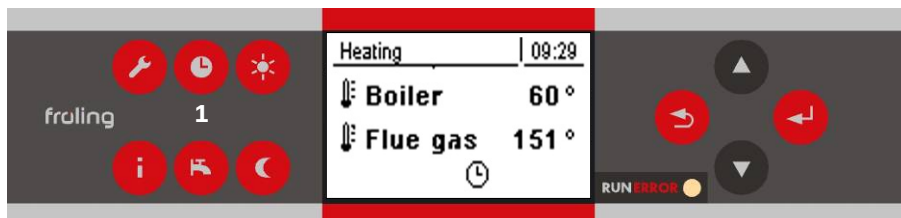
- ☞ We recommend that you install a draught limiter **1**
- ☞ Install the draught limiter directly under the mouth of the flue line, as there is always low pressure there.

Boiler data for constructing the flue gas system:

		P4 Pellet							
Component	Unit	8	15	20	25	32	38	48	60
Flue gas temperature NL	°C	140	150	150	150	160	160	160	170
Flue gas mass flow	NL	25	36	52	65	78	92	140	155
	PL	11	15	20	25	32	41	60	70
Flue gas mass flow	NL	0,007	0,010	0,014	0,018	0,022	0,025	0,039	0,043
	PL	0,003	0,004	0,006	0,007	0,009	0,011	0,017	0,019
Feed pressure required	NL	8	8	8	8	8	8	8	8
	PL	6	6	6	6	6	6	6	6
Feed pressure required	NL	0,08	0,08	0,08	0,08	0,08	0,08	0,08	0,08
	PL	0,06	0,06	0,06	0,06	0,06	0,06	0,06	0,06
Flue pipe diameter	mm	130	130	130	130	150	150	150	150

NL = Nominal Load, PL = Partial Load

2.4 Safety Devices



1	Key for automatic mode	In case of overheating of the boiler: ☐ Press and hold the  key for 5 seconds ➔ Automatic mode is switched off ➔ Control follows the boiler shutdown procedure ➔ The pumps continue to run!
2	Safety temperature limiter (STL)	Switches off the blower fan at the maximum boiler temperature of 105 °C. The pumps continue to run! ☞ Once the temperature falls to below approx. 95 °C, the STL can be reset mechanically.
3	Safety valve	☞ Protection against over-heating When the boiler pressure reaches a maximum of 3 bar, the safety valve opens and the heating water is released in the form of steam.

2.5 Safety instructions for the installation room

- 1) Danger of fire due to flammable materials.
No flammable materials should be stored near the boiler.
- 2) Damage due to impurities in combustion air.
Do not use any hydrogen halides or any cleaning agents containing chlorine in the room where the boiler is installed.
- 3) Keep the air suction opening of the boiler free of dust.
- 4) The room where the boiler is installed must be frost-proof.

2.6 Residual risks



WARNING

Do not touch the hot surface!

Hot parts and the flue pipe can cause serious burns!

- ☐ Protective gloves should generally be worn when working on the boiler.
- ☐ Only operate the boiler using the handles provided for this purpose.
- ☐ Insulate the flue pipes or simply avoid touching them during operation.



Before carrying out maintenance work on/in the boiler:

- ☐ Press and hold the  key for 5 seconds
 - ➔ Boiler follows shutdown procedure and changes to the operating status "Burner off"



WARNING

Do not open the ash doors during operation!

This may cause injury, damage and smoke!

It is forbidden to open the doors behind the insulating door during operation!



WARNING

Do not use unauthorised fuel!

Non-standard fuels can cause serious faults in combustion (e.g. spontaneous combustion of carbonisation gases / flash fires) which can lead to serious accidents!

Only use fuels specified in the chapter on "Permitted Uses" in these instructions.



2.7 Emergency procedure

2.7.1 Overheating of the system

If the system overheats in spite of the safety devices, proceed as follows:

- ☐ Keep all the doors on the boiler closed.
- ☐ Turn off the boiler by pressing the  key for 5 seconds
- ☐ Open all mixer taps, switch on all pumps.
 - ➔ Fröling heating circuit control takes over this function in automatic operation.
- ☐ Leave the boiler room and close the door.
- ☐ Open any available radiator thermostat valves

If the temperature does not drop, inform the installer or Fröling customer services:

➔ [Page 30, 6.2 Address of manufacturer](#)

2.7.2 Smell of flue gas



RISK

Smell of flue gas!

Flue gases can cause fatal poisoning!

- ☐ Keep all the doors on the boiler closed.
- ☐ Turn off the boiler by pressing the  key for 5 seconds
- ☐ Air the room where the boiler is installed
- ☐ Close the fire protection door and doors to living areas.



2.7.3 Fire



RISK

Fire!

In case of fire, there is risk of burns and explosions!

- ☐ Turn off the boiler
- ☐ Use a tested fire extinguisher for fire class AB to fight the fire



AB powder

3 Operating the system

3.1 Initial startup

NOTE

 **Optimum efficiency and efficient, low-emission operation can only be guaranteed if the system is set up by trained professionals and observing the standard factory settings.**

Take the following precautions:

- ☐ Initial startup should be carried out with an authorised installer or with Fröling customer services.

The individual steps for initial startup are explained in the operating instructions for the controller.

[➤ See the operating instructions for the Lambdatronic P 3200](#)

NOTE

If condensation escapes during the initial heatup phase, this does not indicate a fault.

 If this occurs, clean up using a cleaning rag.

3.2 Filling / refilling the store with fuel

CAUTION

Damage and injuries can occur if the store is filled when the boiler is on!

- ☐ Turn off the boiler by pressing the  key for 5 seconds
- ☐ Allow the boiler to cool down for at least half an hour.

When the boiler has cooled down:

- ☐ Close all opening to the store to seal out dust
- ☐ Fill the store with pellets
-  Only use permitted pellets

[➤ Page 9, 2.2.1 Permitted fuel](#)

3.3 Heating up the boiler

NOTE

☞ **Changing the factory settings for primary and secondary air can have a negative effect on efficiency and emissions of the system.**

3.3.1 Switching on the boiler

- ☐ Press the  key
 - ➔ Automatic mode
 - ➔ The heating system is controlled via the control system according to the selected mode.

3.3.2 Controlling the boiler

Necessary control steps. Displaying or modifying parameters:

➔ [See operating instructions Lambdatronic P 3200](#)

3.3.3 Switching off the boiler

- ☐ Press and hold the  key for 5 seconds
 - ➔ The boiler follows the shut-down program and switches to "Burner OFF" status.
 - ➔ The combustion unit is switched off, the chamber delivery unit and the active hydraulic system are active

4 Boiler servicing

4.1 General information on servicing



RISK

Working on electrical components.

Danger: Serious injuries from electric shocks.

- ☐ Work on electrical components should only be carried out by authorised technicians



WARNING

Do not carry out maintenance when the boiler is hot!

Hot parts and the flue pipe can cause serious burns!

- ☐ Protective gloves should generally be worn when working on the boiler.
- ☐ Only operate the boiler using the handles provided for this purpose.



Before starting any maintenance work:

- ☐ Press and hold the  key for 5 seconds
 - ➔ Boiler follows shutdown procedure and changes to the operating status "Burner off"
- ☐ Allow the boiler to calm down for at least 1 hour
- ☐ After maintenance has been carried out switch the boiler on in the desired mode.
 - 🔊 In service mode the boiler does not start automatically.



WARNING

Non-permitted cleaning and maintenance!

Incorrect or insufficient cleaning and maintenance of the boiler can cause serious faults in combustion (e.g. spontaneous combustion of carbonisation gases / flash fires) and this can lead to serious accidents!

Clean the boiler following the instructions. Follow the boiler operating instructions.



Note

- 🔊 We recommend that you keep a maintenance book in accordance with ÖNORM M7510 of the Technical Directive for Fire Prevention (TRVB)

4.2 Inspection, cleaning and maintenance

- ☞ Regular cleaning of the boiler extends its life and is a basic requirement for smooth running.
So clean the boiler regularly!
- ☞ Recommended: When cleaning, use an ash vacuum.

4.2.1 Inspection

Check safety valve

Check the boiler regularly for dirt:

- ☐ Check the safety valve regularly following the manufacturer's specifications.



Checking the system pressure

- ☐ Check the system pressure on the pressure gauge
 - ➡ The value must be 20% over the pre-stressed pressure of the expansion tank
 - ➡ [Expansion tank operating instructions](#)

If the system pressure decreases:

- ☐ Top up with water
 - ☞ If this occurs frequently, the seal of the heating system is faulty!
Inform your installer!

If large pressure fluctuations are observed:

- ☐ Have the expansion tank checked.



4.2.2 Cleaning

The ash drawers (P4 Pellet 8-25) or ash container (P4 Pellet 32-38) must be emptied at intervals according to energy requirements and pellet quality. The grate and combustion chamber should also be checked at these intervals for dirt.

Emptying the ash drawers (for P4 Pellet 8/15/20/25)

- ☐ Open insulation door
- ☐ Open ash doors



- ☐ Take the ash drawers out a bit
 - ➡ This pushes the ash lying in front of the drawer into the ash bowl
- ☐ Thread in the transport cover as illustrated and pull out the ash drawer, until the cover settles into position



- ☐ Take the ash drawer to the emptying point and empty it
- ☞ To remove the transport cover the locking lever must be pushed up



Emptying the ash container (for P4 Pellet 32/38/48/60)

- ☐ Open insulation door
- ☐ Push the locking lever upwards



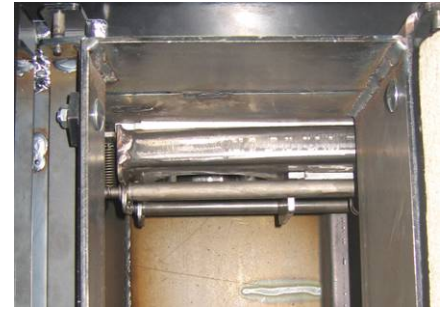
- ☐ Pull out the ash container
- ☐ Put the cover cap supplied on the flange of the ash container



- ☐ Take the ash container to the emptying point and empty it
-  To remove the cover the clamp must be unlocked and opened



Check the grate and combustion chamber



- ☞ Only clean the grate and combustion chamber when the boiler has cooled down
- ☐ Press and hold the  key for 5 seconds
 - ➡ Boiler follows shutdown procedure and changes to the status "Burner off"
 - ➡ The ID fan turns at a controlled speed and the combustion grate stays in open position.
- for P4 Pellet 8/15/20/25:
 - ☐ Open the insulating door, open the right ash door and pull out the ash drawer
- For P4 Pellet 32/38/48/60:
 - ☐ Open the insulating door, take out the right ash container and open the ash door
 - ☐ Check the combustion grate and combustion chamber for dirt
 - ☐ If there is a lot of dirt, clean the combustion chamber
 - [Page 24, Clean the flue gas collection chamber and the heat exchanger](#)

4.2.3 Yearly check

Clean the flue gas collection chamber and the heat exchanger



- ☐ Remove the insulating cover
- ☐ Turn the screw-handles on the cleaning cover anti-clockwise to loosen them
- ☐ Remove the cleaning cover
- ☐ Clean the flue gas collection chamber and the opening to the induced draught fan with a brush
- ☐ Remove any soot which has fallen in
 - ☞ We recommend that you use an ash vacuum



- ☐ Remove the internal heat exchanger cover
- ☐ Clean the flues and the combustion chambers beneath them with a cleaning brush

Clean WOS



- ☐ Remove the insulating cover and cleaning cover
 - [Page 24, Clean the flue gas collection chamber and the heat exchanger](#)
- ☐ Push the lock bolt upwards and remove
- ☐ Remove the WOS mount along with the springs
- ☐ Clean the heat exchanger pipes with cleaning brush

Cleaning the induced draught ventilator

- ☐ Detach the induced draught ventilator on the back of the boiler
- ☐ Check for dirt and damage
- ☐ Clean the blower wheel with a soft brush or paint brush
 - ☞ Do not move the balancing weights on the blower wheel!



Clean the smoke flue pipe

- ☐ Clean the connecting pipe between the boiler and the chimney regularly with a chimney sweeping brush
 - ☞ Depending on the layout of the flue pipes and the chimney draught cleaning yearly may not be enough!

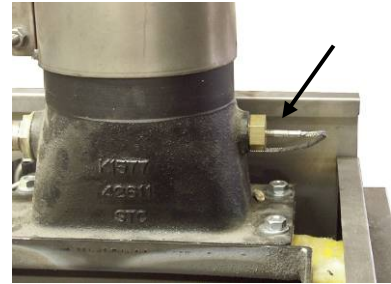
Checking the draught controller flap and explosion flap

- ☐ Check the draught controller flap and explosion flap for ease of operation
 - ☞ Maximum permissible setting: 25 Pa
Ideal setting: 20 Pa

Clean the flue gas sensors

- ☐ Remove the insulating cover
- ☐ Loosen the wing screw and remove the flue gas sensor

- ☐ Carefully wipe off the flue gas sensor with a clean cloth
- ☐ Slide in the flue gas sensor and secure it hand-tight



4.3 Testing Emissions

4.3.1 Measurement at rated load

- ☐  Press this key
 - ➡ The boiler is operated for 45 min at rated load:
 - Boiler temperature setpoint is set to 70°C
 - Heating pumps switch on and the mixer valves open to max. flow temperature setpoint
 - DHW tank and puffer loading pump are controlled as per regular settings

When is it possible to measure:

- 👉 Flue gas temperature at approx. 140 - 180°C
- 👉 CO₂ content of the flue gas between 10 and 13%
- 👉 Boiler temperature above 40°C

4.4 Maintenance agreement / Customer service

✎ We recommend a yearly inspection by Fröling customer services or an authorised partner (third party maintenance)!

Regular maintenance and servicing by a heating specialist will ensure a long, trouble-free service life for your heating system.
Regular servicing will ensure that your system stays environmentally-friendly and operates efficiently and cost-effectively.

In the course of this maintenance the entire system is inspected and optimised, particularly regulation and control of the boiler. The emission measurement carried out can also be used to draw conclusions about the combustion performance of the boiler.

For this reason, Fröling offers a service agreement which maximises operating safety. Please see the details in the accompanying guarantee certificate.

Your Fröling customer service office is also glad to provide consultation.

4.5 Replacement parts

With Fröling original replacement parts in your boiler, you are using parts, which are perfectly matched to each other. As the parts fit together so well, installation times are shortened and lifespan is maintained.

NOTE

Installing non-original parts voids the guarantee!

- ☐ Only replace components or parts with original replacement parts

5 Troubleshooting

5.1 General faults in the power supply

Error	Cause of error	Error correction
Nothing is shown on the display No power to the controls	General power failure FI circuit breaker or line protection is switched off	Switch on the FI circuit breaker or line protection

5.1.1 Behaviour of system after a power failure

When the power supply has been restored the boiler returns to the previously specified mode and is controlled according to the specified program.

EXCEPTION:

If the boiler was at operating status “Heating up”, “Pre-heating” or “Ignition” it follows shutdown procedure and cleaning is started. Only then does the boiler switch to “Preparation” operating status and the system starts again.

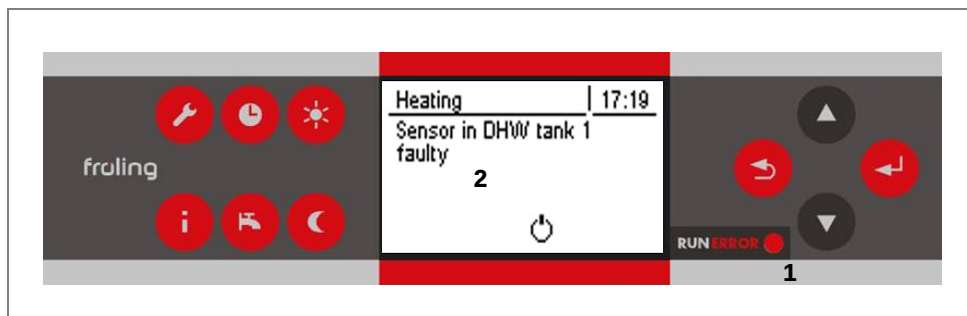
5.2 Excessive temperature



The STL shuts down the boiler when it reaches a maximum temperature of 105°C. After the boiler has cooled down, the safety temperature limiter (1) must be manually unlocked:

- ☐ Unscrew the cap on the safety temperature limiter
- ☐ Reset the safety temperature limiter by pressing with a screw-driver.

5.3 Faults with fault codes



If a fault has occurred and has not yet been cleared:

- ➔ Status LED (1) flashes red
- ➔ A fault message is shown on the display (2)

An internal distinction is made between 2 types of message:

Warning	Boiler follows shutdown procedure
Error	Boiler shuts down immediately, heating circuit controls and pumps remain active

5.3.1 Procedure for fault messages

The procedure for a fault message as well as causes for faults and procedure for troubleshooting are described in the operating instructions of the boiler controls:

➤ [See the operating instructions for the Lambdatronic P 3200](#)

5.3.2 Acknowledging a fault message

Trace and remove the fault and then:

- ☐ Press the  key
 - ➔ Status LED flashes green

6 Appendix

6.1 Guarantee conditions

Our sale and delivery conditions generally apply. These conditions have been made available to customers, and customers have been made aware of them at the time of order completion.

You can also find the guarantee conditions in the enclosed guarantee certificate.

6.2 Address of manufacturer

FRÖLING
Heizkessel- und Behälterbau GesmbH

Industriestraße 12
A-4710 Grieskirchen
AUSTRIA

TEL +43 (0)7248 606 0
FAX +43 (0)7248 606 600
E-MAIL info@froeling.com
INTERNET www.froeling.com

6.3 Declaration of Conformity





EC – DECLARATION OF CONFORMITY

Product:

Types:

Pellet boiler

**P4 Pellet 8 / P4 Pellet 15 / P4 Pellet 20 / P4 Pellet 25 /
P4 Pellet 32 / P4 Pellet 38 / P4 Pellet 48 / P4 Pellet 60
with delivery systems**
**Screw suction system, universal suction system,
sack silo delivery**

EC Guidelines

98/37/EG	Machine guidelines
2006/95/EG	Low Voltage Directive
2004/108/EG	EMC guideline

Applicable standards and guidelines :

EN 60335-1 A14	Household and similar electrical appliances - Safety
EN 61000-6-2	Electromagnetic compatibility – immunity to interference
EN 61000-6-3	Electromagnetic compatibility – interference emission
EN 303-5	Heating boilers for solid fuels up to 300 kW Requirements, Testing and Marking
TRVB H118	Technical directives for fire protection/prevention Automatic wood burning systems

We hereby certify that the series-produced versions of the above products comply with the directives, guidelines and standards specified.

Grieskirchen, 24.09.2007



Quality assurance



Technical services

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